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IN THE CLAIMS

Please amend claims 1, 16, and 17, and cancels claim 5 without disclaimer or prejudice as follows:

- 1. (Currently Amended) A method for injecting a liquid drug containing a biological material, comprising the step of:
 - A) injecting the liquid drug containing the biological material contained in an injector into a subject at a predetermined range of velocity wherein the predetermined range of velocity is at least about 1 ml/min.
- 2. (Original) A method according to claim 1, wherein the predetermined range of velocity maintains a biological activity of the biological material.
- 3. (Original) A method according to claim 1, wherein the predetermined range of velocity is less than or equal to about 20 ml/min.
- 4. (Original) A method according to claim 1, wherein the predetermined range of velocity is less than about 10 ml/min.
 - 5. (Canceled).
 - 6. (Original) A method according to claim 1, further comprising the step of:
 - B) accelerating the liquid drug containing the biological material at a predetermined range of acceleration to reach the predetermined range of velocity.
- 7. (Original) A method according to claim 6, wherein the predetermined range of acceleration maintains a biological activity of the biological material.
- 8. (Original) A method according to claim 6, wherein the predetermined range of acceleration is in the range of about 1 mm/sec² to about 15 mm/sec².
- 9. (Original) A method according to claim 1, wherein an inner diameter of a body of the injector is about 1 mm to about 30 mm.

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- 10. (Original) A method according to claim 1, wherein an inner diameter of a tip tube of the injector is about 0.1 mm to about 1 mm.
- 11. (Original) A method according to claim 1, wherein the biological material comprises a material selected from the group consisting of nucleic acid molecules, polypeptides, lipids, sugar chains, small organic molecules and complexes thereof, cells, tissues, and organs.
- 12. (Original) A method according to claim 1, wherein the biological material is a cell, and the velocity is about 1 ml/min to about 20 ml/min.
- 13. (Original) A method according to claim 1, wherein the biological material is a cell, and the velocity is about 1 ml/min to about 10 ml/min.
 - 14. (Original) A method according to claim 1, further comprising the step of:
 - C) decreasing a velocity of the liquid drug containing the biological material at a predetermined range of acceleration to substantially zero.
- 15. (Original) A method according to claim 14, wherein the absolute value of an acceleration of the decreasing velocity is in the range of about 1 mm to about 15 mm/sec².
- 16. (Currently Amended) A method according to claim I, wherein the injection is carried out for treatment or prophylaxis of a heart <u>disease</u>.
- 17. (Currently Amended) A method for treating an organ using a liquid drug containing a biological material, comprising the step of:
 - A) Injecting the liquid drug containing the biological material contained in an injector into a subject at a predetermined range of velocity wherein the predetermined range of velocity is at least about 1 ml/min.
 - 18-42. (Cancelled).